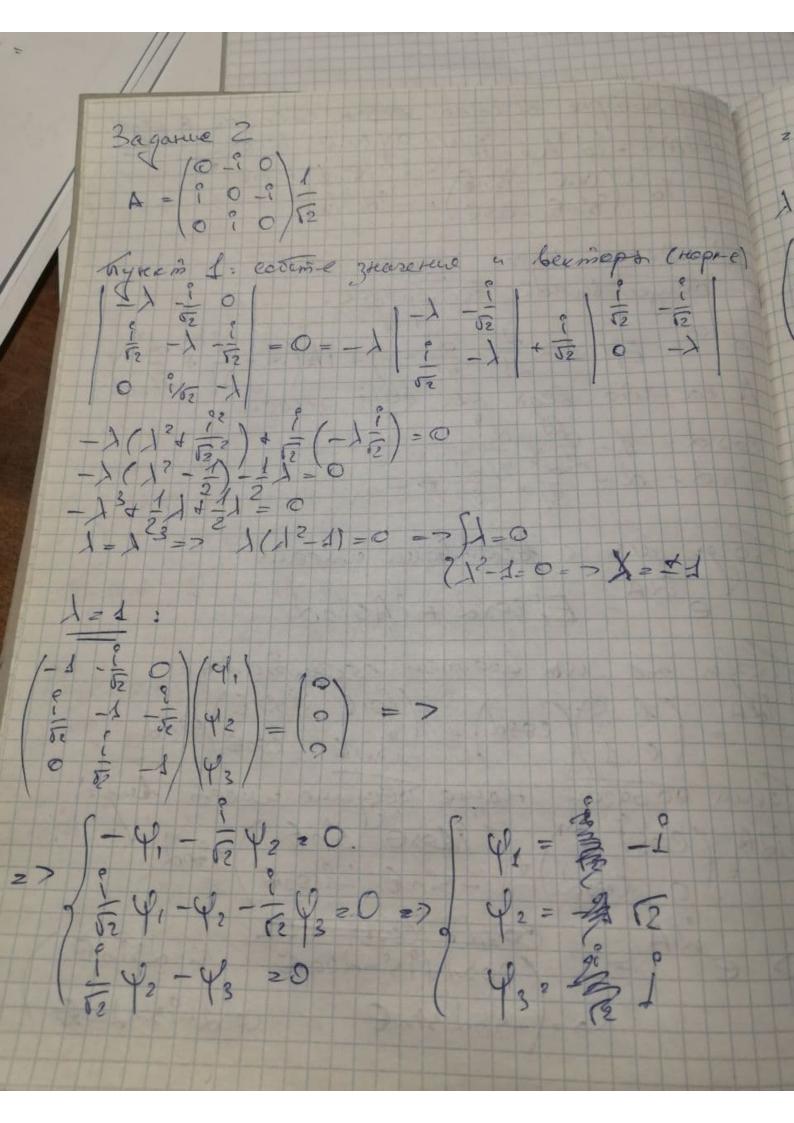
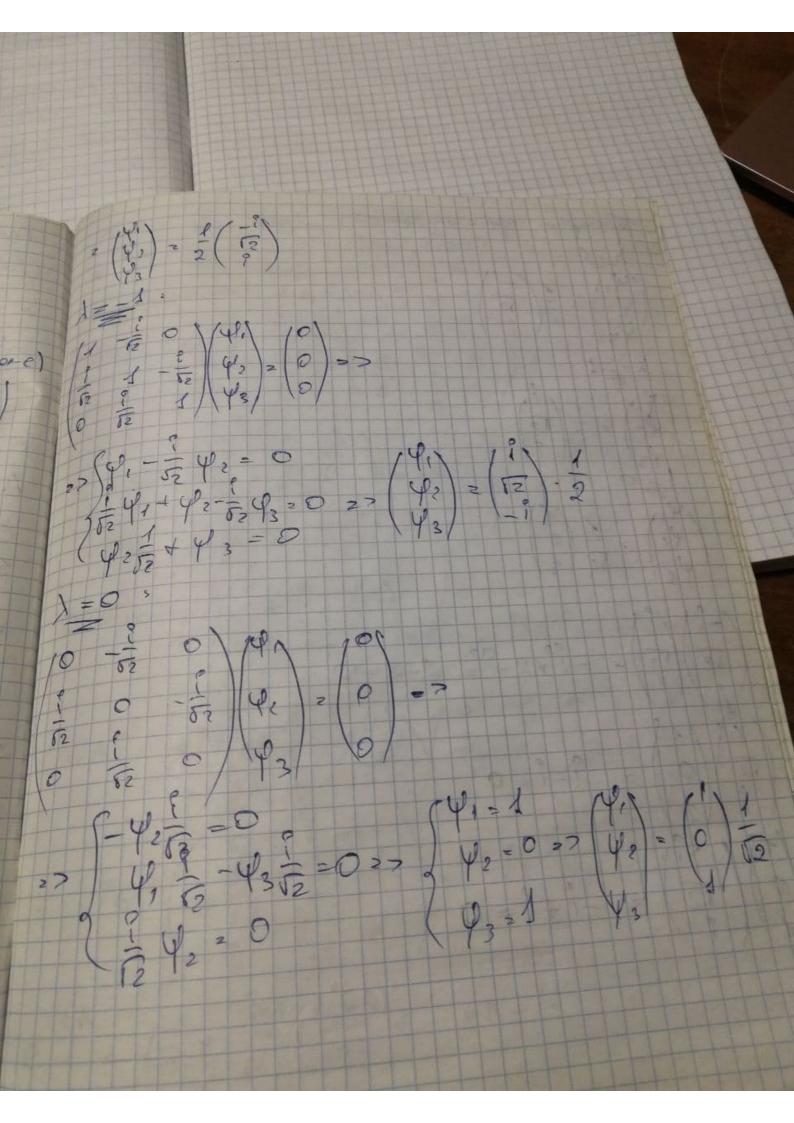
Patopolo Barenisum Homework-2 Vbannobas mexasura B93-18-1 Zagarus & A = (1500 - 1510) Луний 4: собет е значения и векторы (норт) (600- X) -15500 15:00 (-Cext-1) (cose-1)-isino(-isine) = 0 -cos20 - 1 cos0 + 1 cos0 + 12 - (-125000) = 0 - los20 + 12-5:30 = 0 - cos20 + x2-(1-cos20)=0 - cos 0+ cos 0+ 12-3=0 12=1=>1=±1 $\frac{1}{2} = 1 \cdot ((\cos \theta - 1) - i\sin \theta) (\psi_1) = \frac{1}{2} \cdot ((\cos \theta - 1) - i\sin \theta) (\psi_2) = \frac{1}{2} \cdot ((\cos \theta - 1) - i\cos \theta) (\psi_2) = \frac{1}{2} \cdot ((\cos \theta - 1) - i\cos \theta) (\psi_2) = \frac{1}{2} \cdot ((\cos \theta - 1) - i\cos \theta) (\psi_2) = \frac{1}{$ (100) 0 - 1) 4/1 - isin 6-4/2) = (4, (esse-1)-4, (sine = 0 24 isin 6 - 42 (-lose-1)=0 (4) = (950-1) = (000-1)2

de yde Pace Mo (12A)3 2 - 90 ((COSO41) -(SINO) (4) = (0) (4, (cose+1)-4, isine = 0 (4, (isine) + 4, (-cose+1) = 0 Boso e iza Проверия на ортогональность 6: A (-15:00) (15:00) = -18:00+(COSE+1)(COSE+1)(COSE+1)(COSE+1) C9) $(...) = + \sin^2\theta + (\cos^2\theta + \cos\theta - 1 - \cos\theta) = (...)$ $(...) = + \sin^2\theta + \cos^2\theta - 1 = 0 = 20pis ozoteans his$ 1 Букей 2: Найма е ; e = E; + 1; + 2; + ...

Е; -единично я матрену а. Paccuompro rémtene consenemento pagy e 1 dA E + (1 dA) + (1 dA) 2 + (1 dA) 3 + ... (12A)= -2 (cost -ising) (cost -ising) = $z - d^{2} \left(\frac{\cos^{2}\theta - i^{2}\sin\theta}{i\cos\theta\sin\theta} - i\frac{\sin\theta\cos\theta + i\sin\theta\cos\theta}{i\cos\theta\sin\theta} \right)^{2}$ = - 22 (1 0) = - 22 E

pace suo mipro Hereintene 2000 Conercia 6 page (192A) = -12 3A = -12 (0) (0) (192n) - 1930) = -12 3A (955n) - 12 3A Boujeenslevedin vecnopagar: eiza = E(1-2!+2!--)+iA(2-23+25) A voe-rino bego un euje 3 tenen ess d = 1 - 2/1/3 4/25 5:0 d = d - 3! + 5! Torge des chambaren uneen. eida = Eiend + iAsind loya me ut remen recrumaisso () (ess) + (core : 85:00) sind lavun opposan teame verynne uneen bug: e = (cosd) + (1800 5in 0) send 2> eilA = Cosl+icose sindsino Gel-sind sin @ cost-isindess





de gd+ Apelepen opmerskalder con b (42) = 2(52) (P2) 2 1 (52) (P3) 2 7 (52) (42) 2 (0) (43) 2 (2)

e : N(1- 21 + 41+) + : A (0 - 31 + ...) + = - N eigh IN + News + iA sin & Sin O COA 1-1000 -5:10 14000

Myress 3: 14/2 (c) pagnomiss le Taque Catarolement Cempole one-pa A

14/2 = d, 2 (2) + d2 (2) 3 (4) 2 (6) 2 (6) E-N 918-12+ 23 = 0 (3) 1== -2 = > 2 = > 2 = > B masan engrese 196- 20 2 (5) + 20 2 (5) + 20 2 (1) 142=(0) = 41 (52) - 41 (2) + 2 (3) Baganere # 3 Ta 4(x) = 4 (x+a) Myricin 1: 3619 ence 14 onepainer aprecionales 1 dex no enjegenemme econ tat ta no econo <41Tay>= <7a4/4>= <7a4/4> < 4 / Tay >= < 4(x) / 4(x+a) >= | 4(x) 4(x+a) dx = = 14(9-a)4(9)dy = < fa4/4> / < fa4/4> To easis onepassop He Ilageises Ipunisobsen Myngin 2: Hanny Tat

Ta John onpegenen 6 plus-4 nymenna 1 Ta $\psi(x) = \psi(x-a)$ Myrem 3: Haim T+1

1+1=1, way game Heuseomeo gergano T+1+(x)= ++(x+a)= y(x+a-a)= y(x) T+T=1 equiurusión one pain of

Myrkin 4. Hairin 2900 onepanope T(x,x') T(x,x') y(x') dx'= y(x+a) (/a fa ψ(x) = ψ(x+a) = | β(x+a-x')ψ(x') = 2 / Ta (x, x') y (x'dx') 2> => ta(x,x') = b(x+a-x') 3 agains 4 Myriem 4 290 ones Japx Jdx 3 agarme 4 3 = d(x2 d - d x2)

Myre Ros 1: Hairsa 3+

(5+4/4) = 140 + 3 × (4/54) (2) - 2 (x2 dq = dx2q) 4dx = = (-2 x (x2 dx - dx2) 4x) 4 dx = (\$+ 9 x1 4) tignem 2: Ecris nu L'inacue, voio 5 sprunde (5+φ* | y>= *φ* | 5 y> 3+=3=> -2 x (x2 d - x2)=2 (x2 d - dx) -2 = d => Momen neu d=ic.c-const. Tryckin 3: organ onepamopa s(x,x1) -?

194 Igo oneparopa dery = (4/2) 1-22x6(x =>5(x,x1)=-22x6 2

30 garane 5 B2 (a b)

My com 1: 2000 39 5000 B ad-6c (-e a)

B-3B= E= > B ad-6c (-c a) (e d) 2

1 (ad-6c db-db) (ad-6c)

2 ad-6c (ad-6c)

1 (ad-6c)

1 (ad-6c)

1 (ad-6c) B = E = (ad-be o) = (1 p)

Ayur m 2: 0+

Ayur m 2: 0+) de $O(0) = (\cos 0 - \sin 0)$ $O^{+} = \begin{pmatrix} \cos \theta & \sin \theta \\ -\sin \theta & \cos \theta \end{pmatrix}$ 1. enpegenimens 2. Conorna e cea so penja 1 cos6 -5:10 | cos0 +5:10 + 10 =>0 = 7/ Congress man penga: 0 (6) 2 (cost -sint) Tparcnown polennal congral (0x) (cose sind) 201 dex 4 8d+ = CONTÂUY > = (Âto | y) } yoursando (ÂB)+ = B+Â+ Zaganue 6 ζΑΒ·φ | ω> = ⟨β·φ | Âψ> = ⟨φ | ΒΑψ> = ⟨ΒΑ) ·φ | ψ ⟨φ / Âβ·ψ> = ⟨Â+φ | β·ψ> = ⟨β·Α+φ | ψ> = ⟨β·Α+φ | ψ> = ⟨β·Α+φ | ψ> = ⟨β·Α-φ 3 againe 7 A nonomin-o onpeg-4, con (4/A/4) on extemberismi omberaem extemberenous 3 corevue 2 +0 2 ER (201, 201) 2 - (4, 21) - (2+201, 21) (201, 201) 1 - (4, 21) - 112112 112112 Toga lineen 18l112 0.

P.S. ozeberger, emis non 2 mon Été
Tabosteriels peumoblem one parispon (c+c)+= e+c++= e+c HÉCHE >0 garagano.